

## NADH-dependent cytochrome b5 reductase as target for herbicides

## Abstract

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The present invention relates to the use of a polypeptide with the biological activity of an NADH-dependent cytochrome b5 reductase (E.C. 1.6.2.2), which, when not present, brings about growth retardation symptoms and chlorotic leaves, and which is 10 encoded by the nucleic acid sequence SEQ ID NO:1 or functional equivalents of the abovementioned nucleic acid sequence, as target for herbicides. Functional equivalents of SEQ ID NO:1 are provided in this context. Moreover, the present invention relates to the use of the polypeptide with the biological activity of an 15 NADH-dependent cytochrome b5 reductase in a method for identifying herbicidally active compounds which inhibit NADH-dependent cytochrome b5 reductase. Moreover, the invention relates to the compounds identified by the method for use as herbicides.

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